Math Problem

To solve for f(-2 - g(3)) , we first need to find the value of g(3) .

Step 1: Calculate g(3) .

Given the function g(x) = x^2 - 3 :

$$g(3) = 3^2 - 3 = 9 - 3 = 6$$

Step 2: Substitute g(3) into the expression.

Now substitute this value into -2 - g(3) :

$$-2 - g(3) = -2 - 6 = -8$$

Step 3: Calculate f(-8) .

Next, we will calculate f(-8) using the function f(x) = \frac{3}{4}x + 10 :

$$f(-8) = frac{3}{4}(-8) + 10$$

$$= -6 + 10$$

$$= 4$$

Final Answer:

The value of f(-2 - g(3)) is \boxed{4} .